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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/920,342	08/01/2001	Shi-Lung Lin	13761-7024 4134	
7590 06/28/2005			EXAMINER	
WILLIAM E. THOMSON, JR.			SCHULTZ, JAMES	
HOGAN & HARTSON LLP BILTMORE TOWER			ART UNIT	PAPER NUMBER
500 SOUTH GRAND AVENUE, SUITE 1900			1635	
LOS ANGELES, CA 90071			DATE MAILED: 06/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

Security	Application No.	Applicant(s)				
	09/920,342	LIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	J. D. Schultz, Ph.D.	1635				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		•				
1)⊠ Responsive to communication(s) filed on <u>31 March 2005 and 07 January 2005</u> .						
	<u> </u>					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
<ul> <li>4)  Claim(s) 32,34-45 and 55-68 is/are pending in the application.</li> <li>4a) Of the above claim(s) 37 is/are withdrawn from consideration.</li> <li>5)  Claim(s) 34-36,38 and 40-45 is/are allowed.</li> <li>6)  Claim(s) 32,39 and 55 is/are rejected.</li> <li>7)  Claim(s) 56-68 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da					
Notice of Draftsperson's Patent Drawing Review (P10-948)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		atent Application (PTO-152)				

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submissions filed on 31 March 2005 and 7 January 2005 have been entered.

Status of Application/Amendment/Claims

Applicant's response filed on 31 March 2005 and 7 January 2005 have been considered. Rejections and/or objections not reiterated from the previous office action mailed 29 October 2004 are hereby withdrawn. The following rejections and/or objections are either newly applied or are reiterated and are the only rejections and/or objections presently applied to the instant application.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Objections

Claims 55-68 are objected to under 37 CFR 1.75 as being substantial duplicates of claims 32, 34-36, and 38-45 respectively. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it

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is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 39 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claim is drawn to a method of administering a mRNA cDNA hybrid to a prokaryote, "wherein said prokaryote is a virus". One of ordinary skill would understand that a prokaryote cannot be a virus, which thus renders the metes and bounds of the claim vague and indefinite.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 32 and 55 are rejected under 35 U.S.C. 102(b) as being anticipated by Hastie et al.

Claims 32 and 55 are drawn to a method for inhibiting the expression of a target gene in a substrate that expresses the targeted gene, comprising the steps of: a) providing a composition

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comprising an mRNA-CDNA hybrid prior to contacting said substrate, wherein the mRNA-CDNA hybrid is capable of inhibiting the expression of said targeted gene in said substrate; and b) contacting said substrate with said composition under conditions such that the expression of said gene in said substrate is inhibited.

Hastie *et al.* teaches a method for inhibiting the expression of a target gene in a substrate that expresses the targeted gene, comprising the steps of: a) providing a composition comprising an mRNA-CDNA hybrid prior to contacting said substrate, wherein the mRNA-CDNA hybrid is capable of inhibiting the expression of said targeted gene in said substrate; and b) contacting said substrate with said composition under conditions such that the expression of said gene in said substrate is inhibited. Although the substrates of Hastie comprise enriched fractions of mRNA isolated from rabbit reticulocytes or mouse liver, the term "substrate that expresses the targeted gene is being interpreted broadly", because the term "substrate" is itself broad, and is interpreted as including not only the mRNA but also the constituents that accompany the mRNA during the enrichment process. Since expression was inhibited in a solution comprising this enriched fraction, the inhibition of expression is considered to take place in a substrate that expresses the target gene.

## Allowable Subject Matter

Claims 34-36, 38, and 40-45 are allowed, because the art does not teach or fairly suggest administering mRNA-cDNA hybrids to cells *in vivo*, particularly since the art recognized term of mRNA, as well as the definition at page 7 of the instant specification requires that the mRNA be capable of being expressed by a ribosome.

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#### Conclusion

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to J. Douglas Schultz, Ph.D. whose telephone number is 571-272-0763. The examiner can normally be reached on 8:00-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang can be reached at 571-272-0811. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

JD Schultz, PhD

JAMES SCHULTZ
PATENT EXAMINER